

D1280-38US sequence listing.ST25.txt  
SEQUENCE LISTING

<110> Diversa Corporation  
Tozer, Eileen  
Zhang, Feiyu  
Wyborski, Denise  
Moore, Jonathan  
Andrae, Stefan  
Keller, Martin  
Frey, Gerhard

<120> High Throughput Screening of Libraries

<130> D1280-38US

<140> 10/688,057

<141> 2003-10-17

<150> 60/399,272

<151> 2002-07-26

<160> 5

<170> PatentIn version 3.1

<210> 1

<211> 131

<212> PRT

<213> Unknown

<220>

<223> Obtained from an environmental sample

<400> 1

Ser Thr Gly Cys Thr Ser Gly Leu Asp Ser Val Gly Tyr Ala Val Gln  
1 5 10 15

Leu Ile Arg Glu Gly Ser Ala Asp Val Val Ile Ala Gly Ala Ala Asp  
20 25 30

Thr Pro Val Ser Pro Ile Val Val Ala Cys Phe Asp Ala Ile Lys Ala  
35 40 45

Thr Thr Pro Arg Asn Asp Asp Pro Glu His Ala Ser Arg Pro Phe Asp  
50 55 60

Gly Thr Arg Asn Gly Phe Val Leu Ala Glu Gly Ala Ala Met Phe Val  
65 70 75 80

Leu Glu Glu Tyr Glu Ala Ala Lys Arg Arg Gly Ala His Ile Tyr Ala  
85 90 95

Glu Val Gly Gly Tyr Ala Thr Arg Cys Asn Ala Tyr His Met Thr Gly  
100 105 110

D1280-38US sequence listing.ST25.txt

Leu Lys Lys Asp Gly Arg Glu Met Ala Glu Ala Ile Arg Ala Ala Leu  
115 120 125

Asp Glu Ala  
130

<210> 2  
<211> 132  
<212> PRT  
<213> S. cyaneus

<400> 2

Val Ser Thr Gly Cys Thr Ser Gly Leu Asp Ala Val Gly Tyr Ala Phe  
1 5 10 15

His Thr Ile Glu Glu Gly Arg Ala Asp Val Cys Ile Ala Gly Ala Ser  
20 25 30

Asp Ser Pro Ile Ser Pro Ile Thr Met Ala Cys Phe Asp Ala Ile Lys  
35 40 45

Ala Thr Ser Pro Asn Asn Asp Asp Pro Glu His Ala Ser Arg Pro Phe  
50 55 60

Asp Ala His Arg Asp Gly Phe Val Met Gly Glu Gly Ala Ala Val Leu  
65 70 75 80

Val Leu Glu Glu Leu Glu His Ala Arg Ala Arg Gly Ala His Val Tyr  
85 90 95

Cys Glu Ile Gly Gly Tyr Ala Thr Phe Gly Asn Ala Tyr His Met Thr  
100 105 110

Gly Leu Thr Ser Glu Gly Leu Glu Met Ala Arg Ala Ile Asp Val Ala  
115 120 125

Leu Asp His Ala  
130

<210> 3  
<211> 132  
<212> PRT  
<213> S. halstedii

<400> 3

Val Ser Thr Gly Cys Thr Ser Gly Leu Asp Ala Val Gly Tyr Ala Tyr  
1 5 10 15

His Ala Ile Ala Glu Gly Arg Ala Asp Val Cys Leu Ala Gly Ala Ser  
Page 2

D1280-38US sequence listing.ST25.txt

20

25

30

Asp Ser Pro Ile Ser Pro Ile Thr Met Ala Cys Phe Asp Ala Ile Lys  
35 40 45

Ala Thr Ser Pro Ser Asn Asp Asp Pro Glu His Ala Ser Arg Pro Phe  
50 55 60

Asp Ala Arg Arg Asn Gly Phe Val Met Gly Glu Gly Gly Ala Val Leu  
65 70 75 80

Val Leu Glu Glu Leu Glu His Ala Arg Ala Arg Gly Ala Asp Val Tyr  
85 90 95

Cys Glu Leu Ala Gly Tyr Ala Thr Phe Gly Asn Ala His His Met Thr  
100 105 110

Gly Leu Thr Arg Glu Gly Leu Glu Met Ala Arg Ala Ile Asp Thr Ala  
115 120 125

Leu Asp Met Ala  
130

<210> 4  
<211> 132  
<212> PRT  
<213> S. peucetius

<400> 4

Val Ser Ala Gly Cys Thr Ser Gly Ile Asp Ser Ile Gly Tyr Ala Cys  
1 5 10 15

Glu Leu Ile Arg Glu Gly Thr Val Asp Ala Met Val Ala Gly Gly Val  
20 25 30

Asp Ala Pro Ile Ala Pro Ile Thr Val Ala Cys Phe Asp Ala Ile Arg  
35 40 45

Ala Thr Ser Asp His Asn Asp Thr Pro Glu Thr Ala Ser Arg Pro Phe  
50 55 60

Ser Arg Ser Arg Asn Gly Phe Val Leu Gly Glu Gly Gly Ala Ile Val  
65 70 75 80

Val Leu Glu Glu Ala Glu Ala Ala Val Arg Arg Gly Ala Arg Ile Tyr  
85 90 95

Ala Glu Ile Gly Gly Tyr Ala Ser Arg Gly Asn Ala Tyr His Met Thr  
Page 3

D1280-38US sequence listing.ST25.txt

100

105

110

Gly Leu Arg Ala Asp Gly Ala Glu Met Ala Ala Ala Ile Thr Ala Ala  
115 120 125

Leu Asp Glu Ala  
130

<210> 5  
<211> 132  
<212> PRT  
<213> E. coli

<400> 5

Ile Ala Thr Ala Cys Thr Ser Gly Val His Asn Ile Gly His Ala Ala  
1 5 10 15

Arg Ile Ile Ala Tyr Gly Asp Ala Asp Val Met Val Ala Gly Gly Ala  
20 25 30

Glu Lys Ala Ser Thr Pro Leu Gly Val Gly Gly Phe Gly Ala Ala Arg  
35 40 45

Ala Leu Ser Thr Arg Asn Asp Asn Pro Gln Ala Ala Ser Arg Pro Trp  
50 55 60

Asp Lys Glu Arg Asp Gly Phe Val Leu Gly Asp Gly Ala Gly Met Leu  
65 70 75 80

Val Leu Glu Glu Tyr Glu His Ala Lys Lys Arg Gly Ala Lys Ile Tyr  
85 90 95

Ala Glu Leu Val Gly Phe Gly Met Ser Ser Asp Ala Tyr His Met Thr  
100 105 110

Ser Pro Pro Glu Asn Gly Ala Gly Ala Ala Leu Ala Met Ala Asn Ala  
115 120 125

Leu Arg Asp Ala  
130